

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below for the convenience of the Examiner. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 17, 19 and 21 in accordance with the following:

1. (ORIGINAL) A touch panel comprising:
a first layer and a second layer that are arranged to face each other, with a predetermined gap being formed between the first layer and the second layer;
a first resistance film that is formed on a surface of the first layer;
a second resistance film that is formed on a surface of the second layer; and
a power supply unit that is provided on the first resistance film,
wherein the first resistance film and the second resistance film that are originally used for sensing a touch form an antenna.
2. (ORIGINAL) The touch panel as claimed in claim 1, wherein the surface of the first layer faces the second layer, and the surface of the second layer faces the first layer.
3. (ORIGINAL) The touch panel as claimed in claim 1, wherein the first and second resistance films.
4. (ORIGINAL) The touch panel as claimed in claim 1, wherein the surface of the first layer is on the opposite side to another surface of the first layer that faces the second layer;
and
the surface of the second layer faces the first layer.
5. (ORIGINAL) The touch panel as claimed in claim 1, wherein the second resistance film is grounded via a capacitor.

6. (ORIGINAL) The touch panel as claimed in claim 1, wherein the power supply unit is a stub that is integrally formed with the first resistance film by patterning.

7. (ORIGINAL) The touch panel as claimed in claim 1, wherein at least one of the first resistance film and the second resistance film is a transparent electrode film.

8. (ORIGINAL) The touch panel as claimed in claim 1, wherein at least one of the first resistance film and the second resistance film is patterned so as to resonate at a predetermined frequency.

9. (ORIGINAL) The touch panel as claimed in claim 1, wherein at least one of the first resistance film and the second resistance film is a printed resistance film including a carbon or organic conductive film that is patterned by screen printing.

10. (ORIGINAL) The touch panel as claimed in claim 1, further comprising a third resistance film that is formed on another surface of the first layer, the surface being on the opposite side to the surface on which the first resistance film is formed,

wherein the second resistance film and the third resistance film have an identical potential with low impedance with respect to a radiofrequency.

11. (ORIGINAL) The touch panel as claimed in claim 1, wherein the first resistance film and the second resistance film form a plurality of antennas that resonate at a predetermined frequency.

12. (ORIGINAL) The touch panel as claimed in claim 1, wherein the first resistance film and the second resistance film form a plurality of antennas that resonate at predetermined different frequencies.

13. (ORIGINAL) The touch panel as claimed in claim 11, wherein the plurality of antennas are arranged in a predetermined manner to form one of a phased array antenna and an adaptive array antenna.

14. (ORIGINAL) The touch panel as claimed in claim 11, wherein the portions that form the plurality of antennas in the first resistance film and the second resistance film have a microstrip line structure.

15. (ORIGINAL) The touch panel as claimed in claim 11, wherein the plurality of antennas form strip lines that are arranged at intervals of a resonant wavelength.

16. (ORIGINAL) The touch panel as claimed in claim 11, further comprising a third resistance film that is formed on another surface of the first layer, the surface being on the opposite side to the surface on which the first resistance film is formed,

wherein:

the plurality of antennas form strip lines that are arranged at intervals of a resonant wavelength; and

the third resistance film has apertures formed in the regions corresponding to the antennas.

17. (CURRENTLY AMENDED) A touch panel comprising:

a first layer and a second layer that are arranged to face each other, with a predetermined gap being formed between the first layer and the second layer; and

a first resistance film and a second resistance film that are formed on two parallel surfaces of the first layer and the second layer, and are patterned so as to resonate at a predetermined frequency,

the first resistance film and a second resistance film sensing a touch on the touch panel,
further comprising that are originally used to sense a touch form an the antenna.

18. (ORIGINAL) A touch panel comprising:

a first layer and a second layer that are arranged to face each other, with a predetermined gap being formed between the first layer and the second layer; and

a Yagi-Uda antenna that is formed on the first layer.

19. (CURRENTLY AMENDED) An input device comprising:

a touch panel;

a touch panel controller that controls the touch panel; and

a transmit/receive unit that transmits and receives data through an antenna,

the touch panel including:

a first layer and a second layer that are arranged to face each other, with a predetermined gap being formed between the first layer and the second layer;

a first resistance film that is formed on a surface of the first layer;

a second resistance film that is formed on a surface of the second layer; and

a power supply unit that is provided on the first resistance film,

the first resistance film and the second resistance film sensing a touch on the touch panel, further comprising that sensing are originally used to sense a touch from the antenna.

20. (ORIGINAL) An input device comprising:

a touch panel;

a touch panel controller that controls the touch panel; and

a transmit/receive unit that transmits and receives data through an antenna,

the touch panel including:

a first layer and a second layer that are arranged to face each other, with a predetermined gap being formed between the first layer and the second layer;

a first resistance film that is formed on a surface of the first layer;

a second resistance film that is formed on a surface of the second layer; and
a power supply unit that is provided on the first resistance film,
the first resistance film and the second resistance film forming a plurality of antennas that
resonate at predetermined different frequencies, and
the transmit/receive unit performing ultra broadband wireless communication through the
plurality of antennas.

21. (CURRENTLY AMENDED) An electronic apparatus comprising
an input device that includes:
a touch panel;
a touch panel controller that controls the touch panel; and
a transmit/receive unit that transmits and receives data through an antenna,
the touch panel including:
a first layer and a second layer that are arranged to face each other, with a
predetermined gap being formed between the first layer and the second layer;
a first resistance film that is formed on a surface of the first layer;
a second resistance film that is formed on a surface of the second layer; and
a power supply unit that is provided on the first resistance film,
the first resistance film and the second resistance film sensing a touch on the touch
panel, further comprising that are originally used to sense a touch form the antenna.